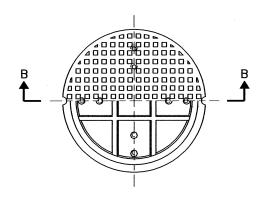
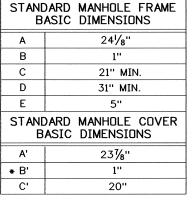


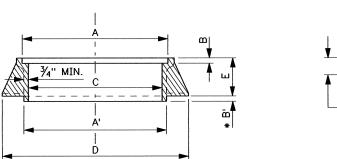
COVER PLAN - TOP HALF VIEW



COVER PLAN - BOTTOM HALF VIEW



* B' MANHOLE FRAME BOTTOM TO FIT INSIDE ANOTHER FRAME LID OPENING



FRAME PLAN

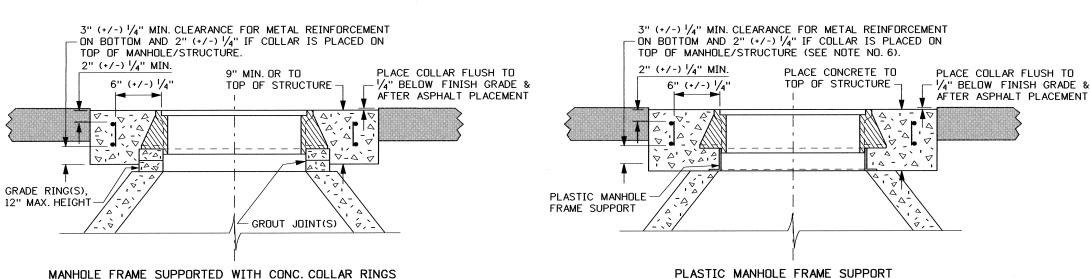
SECTION A'-A'

SECTION B-B

3" MAX.

NOTES

- 1. THE MINIMUM WEIGHT OF THE FRAMES SHALL BE 150 LBS. AND THE MINIMUM WEIGHT OF COVERS SHALL BE 110 LBS. THESE FRAMES AND COVERS ARE TO BE USED IN ALL TRAFFIC AND NON-TRAFFIC AREAS.
- 2. FRAMES AND COVERS SHALL CONFORM TO AASHTO M 306-05 AND SHALL BE MADE OF CLASS 35B GRAY IRON.
- 3. THE LAYOUT AND DIMENSIONS OF THE WEBS ARE TYPICAL MINIMUMS. PROPRIETARY MANHOLE COVERS WITHOUT WEBS ARE ACCEPTABLE PROVIDED THEY MEET AASHTO M 306-05 AND MINIMUM WEIGHT REQUIREMENTS. ALL COVER DESIGNS SHALL BE PROVIDED WITH AN ANTI-SHIFT SKIRT THAT EXTENDS A MINIMUM OF 1" BELOW THE COVER
- 4. THE SURFACE SHOWN IS FOR ILLUSTRATION ONLY. ANY SURFACE DESIGN, OTHER THAN SMOOTH, MAY BE USED UPON APPROVAL.
- 5. A CAST-IN-PLACE CONCRETE COLLAR SHALL BE PLACED AROUND THE MANHOLE FRAME UNLESS OTHERWISE DIRECTED. THE CONCRETE COLLAR SHALL MEET THE REQUIREMENTS OF SECTION 609 - MINOR STRUCTURES, OF THE CURRENT ITD STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.
- 6. THE CONCRETE COLLAR SHALL BE PLACED TO THE TOP OF THE MANHOLE/STRUCTURE OR HAVE A MINIMUM THICKNESS OF 9". WHEN THE CONCRETE COLLAR IS PLACED ON TOP OF A MANHOLE/STRUCTURE THE THICKNESS SHALL NOT BE LESS THAN THE "F DIMENSION" OF THE FRAME. THE VERTICAL METAL REINFORCEMENT LENGTHS MAY BE ADJUSTED WHEN THE COLLAR IS PLACED ON TOP OF A STRUCTURE/MANHOLE
- 7. USE OF A PLASTIC MANHOLE FRAME SUPPORT, I.E. WHIRLY-GIG OR COMPARABLE DEVICE, IS AN ACCEPTABLE CONSTRUCTION OPTION. 8. NOT TO SCALE.



SECTION A-A

REVISIONS SCALES SHOWN BY NO. DATE BY NO. DATE BY NO. DATE ARE FOR 11" X 17" 10-05 MSM 6-61 NS 6 PRINTS ONLY 6-07 MSM 2-74 CADD FILE NAME e9__0607.std 3 | 12-92 MSM 5-95 MSM DRWG. ORIG. DATE: 11-01 MSM

(SEE NOTE NO. 6)

IDAHO TRANSPORTATION DEPARTMENT

BOISE IDAHO

(DEXELOPMENT) CHIEF ENGINEER

(SEE NOTE NO. 7)

STANDARD DRAWING

STANDARD MANHOLE FRAME, COVER, & CONCRETE COLLAR English STANDARD DRWG. NO. E-9

SHEET 1 OF 1

